What is claimed is:

- 1 1. A digital still camera comprising a main solid image element
- 2 as a full frame type solid image element, and a sub solid image
- 3 element as a solid image element which has pixels fewer than
- 4 that of said main solid image element and can operate at a higher
- 5 frame rate than said main solid image element.
- 1 2. The digital still camera according to claim 1, comprising
- 2 a digital image signal process circuit in which an image signal
- 3 inputted to said sub solid image element and said main solid
- 4 image element is color signal processed to provide a color moving
- image and data of said color moving image are used to perform
- 6 autofocus process, simplified image display process, photometry
- 7 control process, and white balance process.
- 1 3. The digital still camera according to claim 2, comprising
- 2 a simplified image display portion for displaying said color
- 3 moving image subjected to simplified image display process by
- 4 said digital image signal process circuit in order to preview
- 5 display an image to be photographed before photographing.
- 1 4. The digital still camera according to claim 2, comprising
- 2 a simplified image display portion in which the preview display
- 3 before photographing is terminated before the photographing is
- 4 started by said main solid image element so as not to display
- 5 said color moving image, and after completion of the
- 6 photographing by said main solid image element, the photographed

- 7 image photographed by said main solid element is displayed.
- 1 5. The digital still camera according to claim 4, wherein the
- 2 photographed image photographed by said main solid image element
- 3 is an image compress-processed after photographing.
- 1 6. The digital still camera according to claim 1, comprising
- 2 a digital image signal process circuit which calculates a signal
- 3 process coefficient in the white balance process, and uses said
- 4 signal process coefficient for processing the photographed image
- 5 obtained by photographing by means of said main solid image
- 6 element.
- 1 7. The digital still camera according to claim 1, comprising
- 2 a digital image signal process circuit which determines
- 3 photometry data including an aperture value and shutter speed
- 4 in the photometry control process before photographing by said
- 5 main solid image element, and performs photometry control based
- 6 on said photometry data.
- 1 8. The digital still camera according to claim 1, comprising
- 2 a digital image signal process circuit which determines an amount
- 3 of strobe light at strobe photographing by the dimmer process
- 4 function before photographing by said main solid image element.
- 1 9. The digital still camera according to claim 8, comprising
- 2 a dimmer sensor for measuring said amount of strobe light.

- 1 10. The digital still camera according to claim 8, wherein said
- 2 amount of strobe light is measured through said sub solid image
- 3 element.
- 1 11. The digital still camera according to claim 1, comprising
- 2 an optical path change mechanism which changes or distributes
- 3 the optical path of a light from a subject, and irradiates the
- 4 light from the subject onto at least one of said main solid image
- 5 element and said sub solid image element.
- 1 12. The digital still camera according to claim 1, comprising
- 2 an optical path change mechanism in which when the optical path
- 3 of a light from a subject is changed or distributed and the light
- 4 from the subject is irradiated onto any one of said main solid
- 5 image element and said sub solid image element, the light from
- 6 said subject is shielded on the other.
- 1 13. The digital still camera according to claim 1, comprising
- 2 said main solid image element and said sub solid image element
- 3 in which when one of them is operated, the other is not operated.
- 1 14. The digital still camera according to claim 11, comprising
- 2 a light control logic circuit for controlling said optical
- 3 mechanism, a main image analog process circuit and a sub image
- 4 analog process circuit for receiving and processing the
- 5 respective output signals of said main solid image element and

- 6 said sub solid image element, an analog process control logic
- 7 circuit for controlling said main image analog process circuit
- 8 and said sub image analog process circuit, and a digital image
- 9 signal process circuit for receiving and color processing the
- 10 digital output signal from said main image analog process circuit
- 11 and said sub image analog process circuit, said light control
- 12 logic circuit and said digital image signal process circuit being
- 13 interconnected.
- 1 15. The digital still camera according to claim 14, comprising,
- 2 in addition to said light control logic circuit, said main image
- 3 analog process circuit, said sub image analog process circuit,
- 4 said analog process control logic circuit, and said digital image
- 5 signal process circuit, a sub CPU for controlling said light
- 6 control logic circuit and said analog process control logic
- 7 circuit through a sub digital bus, and a main CPU for controlling
- 8 said digital image signal process circuit through a main digital
- 9 bus.
- 1 16. The digital still camera according to claim 14, wherein said
- 2 light control logic circuit and said digital image signal process
- 3 circuit are interconnected by a two-way digital bus provided
- 4 therebetween.
- 1 17. The digital still camera according to claim 14, wherein said
- 2 light control logic circuit and said digital image signal process
- 3 circuit are interconnected via said main digital bus.

- 1 18. The digital still camera according to claim 14, wherein any
- 2 one of said main image analog process circuit and said sub image
- 3 analog process circuit includes a switch and an analog-digital
- 4 converting circuit, said switch selects any one of the output
- 5 signals from said main solid image element and said sub solid
- 6 image element, and thereafter, the output signal selected is
- 7 converted by said analog-digital converting circuit.
- 1 19. The digital still camera according to claim 1, wherein said
- 2 sub solid image element is a solid image element other than a
- 3 full frame type solid image element.
- 1 20. The digital still camera according to claim 19, wherein said
- 2 sub solid image element is an interline type solid image element.
- 1 21. The digital still camera according to claim 19, wherein said
- 2 sub solid image element is a CMOS type solid image element.